In the Claims:

All pending claims are reproduced below, including those that remain unchanged.

1. (Original): A method, comprising:

receiving a first schema database comprising information having at least one of a spatial component and a remaining component;

performing data analysis thereon to determine a geospatial pattern based upon the spatial component;

storing the geospatial pattern as meta data;

aggregating data of the database into one or more groupings in accordance with the meta data; and

displaying one or more indicators associated with the one or more groupings on an n-dimensional presentation.

2. (Original): The method of claim 1, further comprising:

analyzing at least a portion of at least one dataset included by the database to determine at least one relationship among the groupings; and

displaying one or more indicators to denote the relationship(s) among the one or more groupings.

3. (Original): The method of claim 1, further comprising:

forming a virtual schema meta model based upon at least a portion of at least one dataset included by the database; and

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wherein the aggregating data of the database comprises aggregating data of the database into one or more groupings in accordance with the virtual schema.

4. (Original): The method of claim 1, further comprising: receiving an input indicating a criterion;

storing the input as meta data; and

aggregating data of the database into new groupings in accordance with the meta data.

5. (Original): The method of claim 4, wherein the input comprises at least one of:

an input from a user,

a defined area,

a derivation based upon one or more objects on the n-dimensional presentation,

a machine defined meta data; and

a result of a computation.

6. (Original): The method of claim 5, wherein:

the defined area comprises at least one of:

a zip code,

an area code,

a census tract,

- a Metropolitan Statistical Area (MSA),
 a nation state,
 a state,
 a county,
 a municipality,
 a plat;
 a voting district;
 a precinct;
 a latitude, and
- 7. (Original): The method of claim 5, wherein:

the derivation based upon one or more objects on the n-dimensional presentation comprises at least one of:

a sales territory,

a longitude.

- a 5-mile radius from a school,
- a 10 feet right of way along a street; and
- a region within a specified distance of a power line.
- 8. (Original): The method of claim 5, wherein:

the result of a computation comprises:

computing an animal home range, the home range providing a region defined by activities of a target;

defining within the region a first ellipse; and

defining within the region a second ellipse approximately orthogonal to the

first ellipse; wherein

an area defined by intersection of the first ellipse and the second ellipse

provides a greatest probability of finding the target.

9. (Original): The method of claim 8, wherein:

the target comprises at least one of:

a suspect, who perpetrated criminal acts defined by the data,

a customer, who completed transactions in shops defined by the data,

a source of biological material, which caused infections in persons defined by the

data,

a source of pollution.

10. (Original): The method of claim 1, wherein meta data is stored according

to a hierarchy.

11. (Original): The method of claim 1, further comprising:

creating a data cube report for at least a portion of a dataset in the data

warehouse;

reducing the data cube report by aggregation to at least one tuple, comprising a

GIS-object and a data point;

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storing the GIS-object as metadata; and aggregating like tuples for display on the n-dimensional presentation.

(Original): The method of claim 1, wherein data analysis further 12. comprises at least one of

data mining;

spatial relationship data analysis;

clustering;

statistical analysis; and

if so, aggregating data represented by the data points.

regression analysis.

(Original): The method of claim 1, wherein: 13. aggregating the groupings based upon the spatial-object meta data comprises: checking whether data points fall within a common region, and

14. (Original): The method of claim 2, further comprising: receiving a second input indicating one or more redefined regions; storing the second input as a redefined spatial-object meta data; and aggregating into new groupings based upon the spatial-object meta data. 15. (Original): The method of claim 3, further comprising:

redefining the virtual schema based upon the spatial-object meta data,

comprising:

receiving a second input indicating a criteria;

aggregating data of the database into one or more new groupings in

accordance with the redefined virtual schema and the second input indicating the

criteria; and

displaying one or more indicators associated with the one or more new

groupings on an n-dimensional presentation.

16. (Original): The method of claim 3, further comprising:

receiving a second input indicating a relationship between a first data point and a

second data point on the n-dimensional presentation;

reflecting the relationship in the virtual schema;

aggregating data of the database into one or more new groupings in accordance

with the virtual schema; and

displaying one or more indicators associated with the one or more new groupings

on an n-dimensional presentation.

17. (Original): The method of claim 1, further comprising:

receiving a second database;

forming a virtual schema including at least a portion of a dataset included within

at least one of the first database and the second database;

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receiving a first input indicating a criteria;

aggregating data of at least one of the first database and the second database

into one or more groupings in accordance with the virtual schema and the first input

indicating the criteria; and

displaying one or more indicators associated with the one or more groupings on

an n-dimensional presentation.

18. (Original): A method, comprising:

receiving a first schema database comprising information having at least one of a

spatial component and a remaining component;

performing data analysis thereon to determine a geospatial pattern based upon

the spatial component;

storing the geospatial pattern as meta data;

forming a virtual schema including at least a portion of a dataset included within

the first database;

aggregating data of the database into one or more groupings in accordance with

the virtual schema and the meta data; and

displaying one or more indicators associated with the one or more groupings on

an n-dimensional presentation.

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19. (Original): A system, comprising:

a schema builder that generates one or more virtual schemas including at least a

portion of data input from a source, and generates mapping rules controlling data

movement into a data warehouse;

a metadata repository operative to hold the virtual schemas and mapping rules;

a region checker;

a data analyzer; and

an n-dimensional presentation;

wherein the data analyzer is operative to create at least one mapping rule based

upon analysis of information in the data warehouse.

20. (Original): The system of claim 19 wherein:

the source comprises at least one of a plurality of on line transaction processing

(OLTP) databases.

21. (Original): An apparatus, comprising:

means for generating one or more virtual schemas including at least a portion of

data input from a source;

means for performing data analysis on the data to determine a geospatial pattern

based upon the spatial component;

means for storing the geospatial pattern as meta data;

means for generating one or more analysis functions based upon the virtual

schemas and data input; and

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means for displaying an aggregated grouping of data in an n-dimensional presentation based upon the virtual schema and the meta data.

22. (Original): A computer program product, comprising:

code for receiving a first schema database comprising information having at least one of a spatial component and a remaining component;

code for performing data analysis thereon to determine a geospatial pattern based upon the spatial component;

code for storing the geospatial pattern as meta data;

code for aggregating data of the database into one or more groupings in accordance with the meta data;

code for displaying one or more indicators associated with the one or more groupings on an n-dimensional presentation; and

a computer readable storage medium for holding the codes.

23. (Original): A customer data analysis report produced according to the method of claim 1.

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